

DSC[®] Classic PC1555

6 – 32 Zone Hybrid Security System

Engineer's Specifications

The contractor shall provide a complete electrically supervised, battery backed-up, fire and burglary alarm system.

EEPROM Memory

The alarm panel shall be equipped with EEPROM memory to retain all program information even if all AC and battery power is lost, and shall have integral static and lightning protection circuitry.

Communications Bus

System shall be complete with a 4 wire unshielded (QUAD) communications bus (KEYBUS) that allows system modules and keypads to be added anywhere on the bus up to 1,000 feet (305 m) per leg from the main control panel.

Alarm Communications

The alarm panel shall be capable of digital communications via regular telephone line, LINKS cellular, LINKS long range radio, and DVACS to two separate monitoring stations or locations with 2 account numbers and 3 telephone numbers. LINKS cellular communication shall be capable of backup or sole communications to monitoring stations and for upload/download operations. The system communicator shall be capable of communicating in all major formats including SIA and Contact ID. Events transmitted shall be programmable to include: fire alarms, burglary alarms, trouble alarms, supervisory conditions, alarm restoral codes, opening (disarming) and closing (arming) codes, partial closing codes, and opening after alarm codes. The system shall be capable of paging personnel on the occurrence of any of the above events selected by the owner. The system shall be capable of transmitting a test code to the monitoring station(s) on a programmable daily, weekly or monthly frequency at a regular time of day.

Alarm Zone Types

The system shall be complete with a multi-zone alarm system with the capacity of up to 32 burglar or Class B fire zones of which up to 32 may be wireless zones. All zones shall be supervised and be capable of operating listed heat detectors, smoke detectors, alarm contacts, motion detectors, glassbreak detectors, vibration detectors, and other listed fire and burglary alarm detection devices.

The system shall have stay/away and stay arming capability to allow the user to remain on the premises while the system is armed. A quick-arm feature shall allow users without access codes to arm the system and exit. A door chime feature shall cause the keypad to beep when a selected door is opened or closed.

Wireless Security & Control

Wireless security shall be 900MHz true 'Spread Spectrum' technology. All detectors shall be fully supervised for communication integrity every 12 minutes.

Wireless control devices shall include up to 4 wireless keypads (in addition to hardwired keypads), and up to 16 wireless keys for remote arm/disarm. In addition, the system shall accommodate up to 32 wireless panic pendants each occupying one wireless zone in lieu of a wireless detector.

Auxiliary Power

The system shall be capable of providing 550mA of 12VDC auxiliary power for alarm devices.

Programmable Outputs

The system shall have 1 low current voltage output and 1 high current voltage output. All outputs shall be programmable to activate for 1 of 23 options.

Audible Alarm Output

There shall be a 700mA, PTC protected, supervised bell/siren circuit that will drive a bell/siren until reset or silenced. Siren output shall be programmable as steady or pulsed for each zone.

False Alarm Prevention

To prevent false alarms and unnecessary transmissions to monitoring stations, the alarm panel shall have SIA false alarm prevention features, programmable swinger shutdown by zone, audible exit delay, audible exit fault, opening after alarm reporting, arm/disarm bell squawk, urgency on entry delay, "quick exit", programmable transmission delay by zone, and transmission delay on AC failure, TLM trouble, low battery, recent close code, and cross zone police code.

Hardwired Keypads

The system shall support any combination of up to 8 dual-language and LED type keypads with backlit displays. Keypads shall be surface-mounted and capable of fully programming and operating the system. Each keypad shall be assignable to operate the entire system. Dual-language keypads shall be complete with 32 character liquid crystal display (LCD) to provide plain language programming instructions, operating instructions, and display of all alarms and supervisory conditions. They shall be capable of toggling between languages by pressing a keypad key combination. LED keypads shall have up to 32 zone indicators. All keypads shall have keypad-activated emergency alarms for panic, emergency, fire, and duress; 5 programmable function keys or programmable keypad functions; LED indicators for Ready, Armed, and Trouble or System; and shall be equipped with a piezo buzzer to provide audible feedback for correct key entries, pre-alert, and trouble.

Each keypad shall have one zone input to allow a zone detector to be wired directly to the keypad.

Access Codes

The system shall allow 39 access codes including 32 user codes, 1 master code, 2 duress codes, 2 supervisor codes, 1 installer code, and 1 maintenance code.

Upload/Download

The system shall be uploadable/downloadable to allow programming and operation from a directly connected local computer, or from a remote computer over a telephone line or LINKS cellular communications equipment. Remote access shall be controlled by the owner to prevent unauthorized access.

Serial Printer

The system shall support a 300, 1200, 2400 or 4800 bps serial printer connected to the communications bus up to 1,000 feet (305m) from the control panel. The printer shall log all system events and transactions with time and date stamp. Information shall be stored in the system's 128 event buffer which can be examined from the LCD keypad or via DLS software.

Approvals

The system shall meet UL and ULC standards as required for the relevant type of application.



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6 – 32 Zone Hybrid Security System



Up to 32 Zones selected from...

- 6 hardwire zones on main control panel
- 8 keypad input zones (1 per keypad)
- 32 wireless zones using PC5132 wireless receiver

Up to 12 Keypads

- up to 8 hardwired and 4 wireless keypads
- 5 hardwired keypad models available...
 - PC1555RKZ eight zone LED keypad with zone input
 - PC5508Z eight zone LED keypad with zone input
 - PC5516Z sixteen zone LED keypad with zone input
 - PC5532Z thirty two zone LED keypad with zone input
 - LCD5500Z alphanumeric keypad with zone input
- WLS910 - wireless hand-held keypad
- added wireless control is provided by...
 - WLS908 - wireless panic pendant
 - WLS909 - wireless key

2 Programmable Voltage Outputs

- PGM1 and PGM2 with 24 programmable options

Advanced Communications

- supports all major formats including SIA and Contact ID
- LINKS 1000™ cellular communication
- LINKS 2150™ and LINKS 2450™ long range radio communication
- DVACS using PC5400DV-SG in place of PC5400 printer module
- event-initiated personal paging
- 3 phone numbers (3rd backs up primary number)
- 2 account numbers

Efficient Installation

- 4 wire communications bus (KEYBUS)
 - connect keypads and modules up to 1000' (305m) from control panel

The PC1555 brings remarkable new technology and product design together in a system that is ideal for residential, commercial, and institutional applications. More than a burglar alarm, the PC1555 is a complete life safety and security system offering the latest advances in hybrid wireless/hardwired burglary and fire protection.

While the PC1555 provides superior electronic protection of life and property, it also supplies a full range of system control options that can be fully customized to meet the exact requirements of the system owner. The PC1555 not only offers a variety of wall-mounted keypads and hand-held wireless controllers, but each interface also provides fully customized operation.

Exceptional quality, complete design flexibility, fully customized system control, and the reliable peace-of-mind security your customers can count on for years to come – it all adds up to the new PC1555 from DSC.

PC1555 Main Control Panel

- **up to 32 fully programmable zones**
 - use any combination of :
 - ...6 hardwire zones on main control panel
 - ...8 keypad input zones (1 per keypad)
 - ...32 wireless zones using PC5132 wireless receiver
 - all zones programmable as burglary or fire⁽¹⁾
 - zone wiring options include... Normally Closed, Single End of Line (EOL) resistor, and Double EOL resistor⁽¹⁾
 - ⁽¹⁾keypad zones cannot be programmed as fire zones if panel is programmed for Double EOL resistor supervision
 - 27 programmable zone types, 8 programmable zone attributes
- **128 event buffer**
 - all events automatically stored with time and date stamp to buffer
 - events can be printed on-site, viewed through the LCD Keypad or DLS software
- **alarm output**
 - bell output - 700mA @ 12VDC, PTC protected
- **2 programmable voltage outputs**
 - PGM1... *North America*low current, 50mA @ 12VDC
International.....high current, 300mA @ 12VDC
 - PGM2... *North America*high current, 300mA @ 12VDC
(can also be used for 2 wire smoke)
International.....low current, 50mA @ 12VDC
 - 24 programmable options
- **local PCLINK™ and remote upload/download capability**
 - PCLINK allows direct connection of PC to alarm panel
 - program system using DLS software
 - view status and trouble conditions
 - view 128 event buffer
- **1A regulated power supply**
 - auxiliary power... 12Vdc, 550mA
 - positive temperature coefficient (PTC) AUX & Bell output protection
 - electronically protected from KEYBUS faults
 - supervision for AC power loss and low battery
 - internal clock locked to AC power frequency
- **battery required** : 12V, 4Ah, rechargeable sealed lead-acid
- **transformer required** : 16.5VAC, 40VA

System Operation

- **39 access codes**
 - 32 user codes, 1 master code, 2 duress codes, 2 supervisor codes, 1 installer code, and 1 maintenance code
 - individual open/close reporting by user
- **'no code required for Bypassing' option**
 - allows users to bypass zones without entering an access code
- **'quick arm' and 'quick exit'**
 - allows users to arm and exit easily
- **'stay/away' zones and 'stay' arming**
 - security of perimeter arming while premise is occupied
- **automatic arming**
 - program system to auto-arm at a specific time every day
- **'activity delinquency' code**
 - signals monitoring station if no activity is sensed in premise for a programmable period of time
- **door chime**
 - programmable by zone
 - monitor a door by having keypad beep when the door is opened or closed

False Alarm Prevention Features

- audible exit delay
- arm/disarm bell squawk
- quick exit
- programmable swinger shut down by zone
- programmable transmission delay by zone
- AC failure, TLM trouble, and Low Battery transmission delays
- recent close code transmission
- cross zone police code transmission
- opening after alarm code transmission
- audible exit fault
- urgency on entry delay

Full Supervision

Trouble conditions are displayed on all keypads and can also be communicated to central station for :

- battery trouble
- zone low battery
- zone tamper
- system tamper
- siren circuit trouble
- general system trouble
- event buffer 75% full
- telephone line trouble - (via LINKS™ cellular communicator)
- general system supervisory trouble... reports when system fails to communicate with any module on the KEYBUS
- AC failure
- auxiliary power trouble
- zone fault
- fire trouble
- arming delinquency
- failure to communicate
- loss of system time

LED & LCD Keypads

Plain Language LCD5500Z Keypad

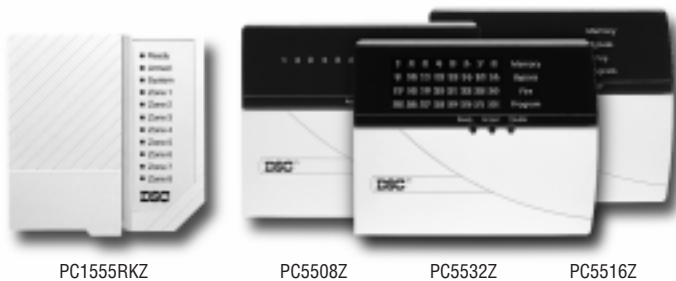


The PC1555 security system is fully programmable from the attractive, easy to use dual-language LCD5500Z keypad :

- **connect up to 8 keypads, combination LED and/or LCD**
- **zone input**
 - connect detector to keypad to replace one of 6 main panel zones or increase total zones up to 8 with 2 keypads
- **dual-language** (*languages vary according to country*)
 - simple key entry to toggle between languages while viewing keypad
- **large 32 character display**
 - zone identification
 - system instructions
 - system status
 - 128 event buffer
 - trouble conditions
- **plain language operating instructions**
 - menu for user functions
 - what key to press for specific functions
 - steps for programming functions

- **5 programmable function keys with 15 options** such as Home Arm, Away Arm, Quick Exit etc.
- **4 keypad-activated alarms** : Fire, Auxiliary, Panic, and duress
- **3 LED indicators** : Ready, Armed and Trouble
 - allow system status to be viewed at a glance
- **backlit display**
 - display and keys backlit for easy viewing in low light conditions
 - adjustable brightness and contrast
 - *Backlighting Boost* provides extra high key lighting when any key is pressed
- **piezo buzzer**
 - provides audible feedback for correct key entries, pre-alert, and system trouble status
 - select from 21 different buzzer tones
- **connect to 4 wire KEYBUS up to 1000' (305 m) from control panel**
- **specifications**
 - current draw : 90mA with backlighting boost
 - dimensions : 5.75" x 4.5" x 1" deep (144 x 114 x 25 mm)

LED Keypads



Four keypads are available... *with zone input* :

PC1555RKZ... 8 zone LED keypad

PC5508Z... 8 zone LED keypad

PC5516Z... 16 zone LED keypad

PC5532Z... 32 zone LED keypad

- **zone input**
 - connect detector to keypad to replace one of 4 main panel zones or increase total zones up to 8 with 4 keypads
- **5 keypad functions with choice of 15 programmable options**
 - separate function keys on PC5508Z, PC5516Z, and PC5532Z
- **connect to 4 wire KEYBUS up to 1000' (305 m) from control panel**
- **LED indicators** : PC1555RKZ Ready, Armed, System
PC5508Z, PC5516Z, PC5532Z Ready, Armed, Trouble, Memory, Bypass, Fire, Program
- **4 keypad-activated alarms...** Panic, Auxiliary, Fire, and Duress
- **backlit display...** with *Backlighting Boost* : provide extra high key lighting when any key is pressed
- **piezo buzzer...** provides audible feedback for correct key entries, pre-alert, and system trouble status
- **specifications**
current draw... 90mA with backlighting boost
dimensions... PC1555RKZ... 5.5"W x 4.5"H x 1"D
(140 x 114 x 25 mm)
PC5508Z, PC5516Z, PC5532Z... 5.75"W x 4.5"H x 1"D
(144 x 114 x 25 mm)

PC5400 - RS232 Serial Printer Interface Module

- allows serial printer connection for report of events logged to the PC1555 event buffer
- supports any 300, 1200, 2400 or 4800 BPS serial printer
- multiple languages available
- module connects to 4 wire KEYBUS up to 1000' (305 m) from control panel
- c/w DB-25 modular connector for easy connection
- current draw : 65 mA
- maximum one module per system... PC5400DV-SG DVACS module may be substituted for full DVACS communications capability (see separate DVACS spec sheet)

Wireless Security

PC5132 Wireless Receiver



- connect up to 32 DSC wireless detectors
- true 'Spread Spectrum' technology, 900 MHz, fully supervised for communication integrity
- 12 minute supervisory time
- connect to 4 wire KEYBUS up to 1000' (305 m) from control panel
- current draw : 125 mA

Wireless Control Devices



WLS908 Wireless Panic Pendant

- communicates a non-medical alarm to central station
- 32 pendants maximum...each occupying 1 zone
- sealed non-replaceable battery

WLS909 Wireless Key

- remote arm/disarm control
- up to 16 keys per system
- 3 photo/electronic 1.5V batteries included

WLS910 Wireless Hand-Held Keypad

- personal remote keypad
- up to 4 wireless keypads per system (in addition to hardwired keypads)
- 3 'AAA' batteries included